2600



APRIL, 1985

VOLUME TWO, NUMBER FOUR

terprises, free, attribute organizations, organizations, or more half per bank titles. Occasion, 214 - 1 per t Circles: telescoption 2200, Corporate sportsuckip, 2200.

Wate 10: 3004, Rep. 252, Model: Identi, NF 1165-12053, Dist. 5103-1206. Res. 2013;64401, 265 pt 1004-1051.

what a white box can do

This article describes how to take a standard touch tone keypad and convert it to a portable unit. This information is the old OSUMY BBS, It is also available on Sherwood Forest II the old OSUMY BBS, It is also available on Sherwood Forest II reprinted and explained here for those who are not able to get this type of information from BBS's and for those who are just if you convert a touch tone keypad in the manner described of your telephone and telephone system. You will also be able respond to touch tones, because now you will be able to generate touch tones yourself without having to depend on the their touch tones after you dial your newber. In addition, heads after your dial your newber. In addition, their touch tones after your dial your number. In addition, each new which have no dial on them and authorically dial a sections which have no dial on them and authorically dial a there are often phones in airports, hotels, and at bank pre-programmed number (usually a service number), which can be used by someone with a portable dialer to enter a number or gaining control or tausing a wrong number. It is often the the phone eight eventually revert to a dial tone which can be tapping the plunger on the telephone when no dial or keypad purchased a portable dialer, it would cost from \$20 to \$70 purchased a portable dialer, it would cost from \$20 to \$70 protected, and are smaller than a calculator cost book to \$70 for less, when you sign up for them. When no distance services below is a note may to bring new life to an old touch tone general use of this device is legal and fun.

**Potential of the they are available from long distance services phone or keypad. Please note that the building and the First of all; the tones made by a touch tone telephone are "OTMF" (dual tone aulti-frequency). The normal tone telephone are "OTMF" (dual tone aulti-frequency). The normal tone telephone different signals. but is capable of dialing 16 The dower recuired by a wired keypad is about 25 volts, but

The power required by a wired keypad is about 25 volts, but by well work with as little as 15, thereby allowing you to use two 9 wold radio batteries. As you may have eatpastrami

guessed, they are also designed to operate with a teleph type speaker (and phone line), and not the standard 8 accomplish this, we use a matching transformer, this is one those minimizer ones available at Radio Shack. Enough of a

You will need: A couch tone keyped A similature 1000 to 8 chs transformer (Radio Shack # 273-1360) A standard 8-ohe speaker Two 9-volt radio batteries Two 9-volt battery clips A case to put it all in (optional)

A few construction notes, it is suggested that you solded and tape all connections. It is also important to read that entire article before attempting to construct this. First, connect the RED wire of the transfereer to either the connect the business the business the business that the

First, connect the RED wire of the transformer to either terminal on the speaker. Now connect the MMIJE wire from the transformer to the other terminal on the speaker. Next, connect the RED (positive) wire of one battery clip to the connect the RED (positive) wire of one battery clip to the remaining RED wire on the second battery clip. Now connect the MIJE wire from the touch tone pad. Connect the StUE wire from the touch tone pad. Connect the StUE wire from the touch tone pad to the ORANGE-and-BLACK striped wire from the touch tone pad to the ORANGE-and-BLACK striped wire from the black lead from first battery clip. You have now finished the black lead from first battery clip. You have now finished the the RED-and-GREEN striped wire on the transformer. Maxt connect wire on the transformer. The BLACK wire on the transformer wire on the transformer. The BLACK wire on the transformer wires from the keypad. The connection of the keypad is now betteries to the battery clips, and you'll be ready to go. You that the silver box medification CAN be made to this unit, complex than the conversion you have accomplished above. When allowing complete remote phreaking. This is a bit core none of the buttons are pressed, this unit uses NO power, thereby eliminating the need for a power writch, and extendend complex then the conversion you have accompliance above, elem none of the buttons are pressed, this unit uses MD power, thereby eliminating the need for a power switch, and extending the life of the batteries.

a phone phreak scores

This is another story to add to the annals of social engineering, one which we all can learn from ... A few months ago my Mon had some people refinish and blacktop our driveway. So she called some Companies in the some in the chose the chapter one. They came and did not not the work, and she chose the chapter one. They came and did not not the work, and she naid they convidend they came hard. phone book, and she chose the cheapest one. They came and did soon to finish the blacktopping job. This all sounded fine, postponing they came back bot after several weeks of the company calling up and visit the tompany at the address listed in the phone book, called them, but when she got an answering machine when she just the back rope of a storefront and that the company had accepted the several ways get an answering machine when she just the back rope of a storefront and that the company had accepted it a few months earlier. When she tried calling them yacated it a few months earlier. When she tried calling them their number had been changed. So I did a CMA on their new than and she visited the new address that I got. The man and to the new address that I got. When Mos got to the new address she found a vacant was at this point that it started to sound pretty fishy to Moe and I. But how could we find out where they were, if they gave a fake address to the phone company?

That's when it occurred to see to call the business office that handles that company's telephone. I called and they number, and ? proceeded to tell them how I did not got av last phone bill, and how I wanted to make sure they were sending it to the right address. They told se the real name and address it was listed under. There is a difference, which was the one it was listed under. There is a difference, you know, they it was listed under, there is a difference, which was the one asked if I was "Mr. So and So," to which I responded "Yes." Said, "Mo, that's my partner's address. Mo need to change it, Thank you.

Thank you. And that was it. I found their address. Mon visited their abig field with a telephone and a power table going into it startled, because it seemed that they did not have a license to do the work that they were doing and a context of the work that they were doing and had several other starting, because it seemed that they were doing and had several other to do the work that they were doing and had several other tustomers and some government agencies looking for them. Since Bom had the opods on them, they were obliged to finish our driveway, and that's all Mom wanted after all.

PREFACE
The purpose of this tutorial is to give potential markers
perul information about Hewlett-Packers's HP2000 systems. The
following motation will be used throughout this tutorial;
(CR) - carryage return, RETURN, SMIER, etc.
C - a control character (control-C in example)
CAPITAL LETTERS - computer output k user input
SYSTEM INFORMATION
Each MP2000 system can support up to 32 users in a limenhared

CAPITAL LETTERS - coequiter output k user input

Each MP2000 system can support up to 32 users in a Timeshared

EASIC 1788) environment. The systems usually run a version of
Hewlett Packard's Timeshared/BBS1, 2000 Tyarious Levels).

Conce connected to a MP2000, type a numeral followed by a

CR2. The system should then respond with: PLEASE LOB LW. If it
does not immediately respond teep on trying this procedure
until it does when tend to be slow to respond).

User 10: The user id consists of a letter followed by 3

digits, eq. H241.

Password: The passwords are from 1 to 6 printing asd/or
non-printing icontrol: characters, the following characters
will HDT be found in any passwords so don't bother trying them
line delete 1"2", null ("a", return 1"N), line feed ("J", 1"OFF
("S), rubbut, comes ("J", space 1"") back arrow ("J", 1"OFF
("S), rubbut, comes ("J", space 1"), back arrow ("J", 1"OFF
understore 1". HP also suggests that "E is not used in
passwords (but I have seen it 200g).

The logon format is: HELLO-A:23, PASSMD Where: HELLO is the
logon command. It may be abbreviated to HEL. A:23 is the user
id k PASSMD is the password.

The system will respond with either lileGAL FORMAT or ILLEGAL
ACCESS sepending upon whether you screwed up the system or it
is an invalid user id or password. The messages: PLEASE LOG [W,
LLEGAL FORMAT, & ILLEGAL ACCESS also help you identity HP2000
systems.

The system may also respond with ALL PORTS ARE BUSY NOW —

systems,

systems,
The system may also respond with ALL FORTS ARE BUSY NOW —
PLEASS TRY ASAIM LATER or a similar message. One other
possibility is NO TIME LEFT which means that they have used up
their time limit without paying.
Uslike other systems where you have a certain amount of tries
to login, the M*2000 System gives you a certain time limit to
login before it sumps you. The system default is 120 seconds (2
ginutes). The sysop can change it to be anywhere between 1 and
200 seconds, though. In my experience, 120 seconds is
sufficient time for trying between 20-30 logon attempts while
hand-hacking k a much higher amount when using a hacking
proorda.

The various users are identified by their user id IA1231 a password. Users are also identified by their user id IA1231 a password. Users are also identified by their user id IA1231 a group. Aloo through Alfy is another group, k 1900 through 1993 is the last possible group. The first user id in each group is a designated as the Group Master a he has certain privileges. For example, ACCO, AloO, ... H2CO, ..., a 1900 are all Broup Masters. The user id ACCO is known as the System Master a he has the east privileges ibesides the hardwired syspon terminal. The library associated with user 1999 cm be used to store a HELLO program which is executed each time squeene loss on.

So, the best thing to hack on an MP2COO system is the System Master (ACCO) account. It is also the only user id that MUSI be on the system. He loss on by typing: MEL-ACOO, PASSMO. You just have to hack out his password. It you decide to hack 1999, you can create or change the HELLO program to give every user your own personal essange every time he logs on! This is about all you can do with 1999 though mince it is otherwise a non-privileged account.

LIBRARY ORGANIZATION

Each user has access to 3 levels of libraries; his own private library access to 3 levels of libraries; his own private library access to 3 levels of libraries.

Each user has accept to 3 levels of libraries; his own private library, a group library, and the syptem library, so see what is in these libraries you would type: thialog, GROUP, & Library respectively lall commands can be abbreviated to the first 3 letters. The individual user is responsible for his can library and apatications all the files. If a program is in your CATALOG, then you can change it.

Group Masters (GM) are responsible for controlling all programs in the Broup libraries. Only excepts of the group can use these programs. These are viewed by twoing GROUP, for example, user \$500 controls all programs in the Broup library of all users beginning with 1d \$55x, Other users in the group CAMMOI modify these grograms. All programs in the group library are also in the Group Masters private library (LATALOG), therefore he can modify them: The Group Master also has access to 2 privileged commands. They are: PROTECT the Group Master can render a program so it cannot be LISTED. SAVED, CSAVED, PUNCHED to paper tape, or XPUnched. For example, if the GM typed PRO-MUMPUS, other users in the group would be able to RUN MUMPUS but they would not be able to list to be able to RUN MUMPUS but they would not be able to list to be and the can remove these restrictions with the UMFrotect command.

[System Master (SM) and big list is a control of the control of the control of the control of the can remove these restrictions with the UMFrotect command.

[System Master]
There is exactly one System Master (SM) and his user id is 4000. He can reduct a UMPROTECT programm in the System

Library.

All evers have access to these files by typing LEBRARY to view them. Only the Bystem Master can modify these files since his private library is group library constitute the System Library. The SM wise has access to other privilened command such as: DERECTORY: this command will printout all files and programs afored on the system according to uners. DIR will print out the entire directory. DIR-S500 will start listing the directory with user 3500. Example:

218

20CES FD 1 053/84 1243

10 WARE DATE LENGTH DISC DRUM
ACCO ALFRA 043/86 004564 001526

FFRIM: 053/84 04564 001526

1999 HELLO 221/84 00058 01:863

In this example, the system name is BOCES ES 1. The date of the printout is the 53rd day of 1984 1053/841 and tho time is 12:43 124-hr). The files appearing under A000 are those in the System Library, the DATE associated with the program is the date it was last referenced. The LEMSTH is how long it is in mords. DISC refers to its storage block location on one of the bard drives. DRUM refers to its location on the drum storage unit. Dnly sanctified programs are stored on a drum to increase their actes; time. The letters after the date refer to F if it is a sile, P means it is protected, and C means the grogram in compiled. In the example the twice program, MUMPUS, was last used on the 53rd day of 1984 12-22-8419 it is currently unlistable iPROtected) and it occupies 2535 words of memory starting at disc block 3142. The tommand SDIrectory will print out programs that are only stored on drum. Most system Gerectories are usually longer than the example. The above example is an abridged version of a 45 page directory! The (BESAC) key will STUP the lighting in necessary.

The REPORT command will show the USER id, how much terminal the than head accounter.

The REPORT command will show the USER id, how much terminal TIME they have used since the last billing period in minutes), and how much disc SPACE they are using. Example:

REPURT

COCES ED 1 055/84 1905

ID TIME SPACE 1D TIME SPACE 1D TIME SPACE A000 01150 12625 8451 00003 05861 5884 00000 05000 S500 00135 06861 5854 00000 05000 S500 00135 06861 5854 00000 00058

The advantage of hecking the ACCO password first is that you can use the privileged commands to set which user id's exist and what programs are stored where so that you can ferther penetrate the system.

HOTE: There are different levels (versions) of ISB/2000. This article is based primarily on Level F. Most of the levels are similar in their commands so the differences should not affect the hacker. Also, some systems are customized Eq. one system I know doesn't have the MESBAGE command because they don't want the operator bothered with messages, Another system says 777 instead of PLEASE LOS IN and ILLEGAL instead of ILLEGAL ACCESS. These are only trivial problems, though.

Hewlett-Packard often supplies programs from their ISB

ILLEGAL ACCESS. These are only trivial problems, though.

PROCEMANS

Hewlett-Packard often supplies programs from their TSB ibrary for the systems. Utilities such as ASSIII. FPRIMT, a others are almost inevitably found on every system. Standard games such as MEMPICS, STOCK, LUNAR, & many others are also a system must. Other companies offer very large programs for the MP2000 also. GIS ibuidance Information Systems is a database to help quideose counselors help students to select colleges, jobs, financial aid, etc. GIS is usually found in the Sous proup library (apyone with an Sous password can use it.) Unfortunately, semetimes these programs are set so that a certain password will automatically ROM them. In some cases you can about by pressing the (AMEAK) key. There is a BASIC function (X-BAKO) that disables the (BREAK) key. In this case, only the Sysop or the program can throw you into BASIC. There are many alleged but on the MP2000 that allow users to do all sorts of things. If you run across any of these be sure to let us know.

Most of the MP2000 systems are used by schools, school districts, BOCES, and various businesses. This was an ideal system has been in existence since around 1975, It has been replaced by the HP2000 but there are still many MP2000 systems in existence be believe that they will stay there for awhile.

Here are the distributed that they will stay there for awhile.

Here are the distribute that they will stay there for awhile.

Here are the distribute that they will stay there for awhile.

Here are the distribute that they will stay there for awhile.

Here are the belongs to NYU. Type her at the prompt. Then hit the (BREAK) key slowly until you see the backslash it) prompt. for are then in.

ABC







At the Last Stroke...

At precisely 12 are on April 2nd a man's voice was heard on Britain's telephone talking check for the first time.

The smooth barilons voice of partition actor Brian Cobby, 35 years old, replaced the modulated contrains of Pat Saturnous, whose voice was retired after 21 years at precisely 10:39 and 50 seconds.

Last December Mr. Cobby was chosen from among 5,000 competitors to tell the section the precise time every 10 seconds in a reconfed selephone message that is expected to receive 300 million calls this year.

Only two other voices have been heard on the telephone clock since it was devised in 1939. Both were worsen's.

Mr. Cobby, an assistant supervisor of a salephone exchange in Bughton in wuthern England, said it was "a guat honor to be Britannia's wristwalch. "He was paid the equivalent of 56,080 to award the 8,640 time aunumcentures of one

Good Apples for the Soviets

The Reagan Administration appears to be perpared to deeperate with Soziel efforce to pur personal computers in secondary schools, according to industry officials negotiating expert houses.

"We expected it would be more deficult, so I was quite pleasurally surprised." said Albert Eleonstadt, a viice president of Apple Computer who was in Washington to discuss computer expures with Commerce and Defense Department officials. "They just want to make some we do it right."

The Soviets are already producing their own "Agat" -- a Soviet knocked? of an Apple 17, has they are not able to produce enough. That is why fill M. Commodore. Sinclair Research Ltd., and Apple are all usuaryesing for the Soviet market.

The Commerce Department has argued that it makes no series to but American companies from selling computers the Russians could easily obtain in Japan and Britain. The Delense Department, which has taken a hanfer line, sages. unperturbed by the thought of exporting thousands of machines, provided they sie used for istumition, by law the side of "handened" machines that are designed to withstand batckeliehl conditions are harred.

Hackers Go Free

He West York Parcy

Four transpers who used home computers to tap into a space agency computer at the Marshall Space Physis Censer will not be presecuted. United States Attorney Frank Dono Mson announced.

The FBI served the youths' computer equipment as their homes in Hunesville. Alabama, last July In after tracing the phone calls used to enter the computer. Unsuperinged secret to a computer is not permitted.

One of the youths, Robert Groupbles, [7] warroad, and he wished the FMI would retains his \$5,000 computer because "I ston't say any reason for their to keep it." [Keep up the spirit, Rob.]

Robot Kills Man

the New York Surger

Fast sommer, a Michigan man was the first weekey school by a rabel in this country. The 14 year-old victim, working with automated dar-casting mechinery last July, was pinned between the back of a robot and a steel pole, the National Center for Diwase Coccost reported. The upption suffered a heart attack, lapsed

There are more than 6.200 robots in use furtionwide.

Santa Fraud

Anapylatical Policy

Randy Grimm didn't know it cost 55 cents every time its catted a sports trivial gamer, so the 15-year-old dialect it 350 units has month hoping in answer the quacontrolly and war a prior. His mather excrived her telephone hill: #8 pages long. with more than 5/90 worth of "\$76" calls. But Ms. Genera disease want to play, and orielier do the parents of Jusie Agranger-Gulls and Rachel Kurba-Falk, who repeatedly called a Souta Claus message Lot December, not knowing it was

Jessiy and Rached, both 7, are plaintiffs of record in a \$70 auditor lawsoit bled in San Francisco-Superior Court against Pacific Belland the company that operates the Soma Claus Line,

The suit necessis Bell and "Santa Franci" of deceptive advertising "designed to Suboly residual children inso believing the calls were large and inducing the reson call (spealedly).

The stor, filed on behalf or all California children, asks for a refund for an estimated 100,000 families and \$10 million in punitive damages to set up a children's protection finel to fight deceptive advertising.

Overseas Pirates

In the large viries in Holland lass year, you couldn't switch on the TV at times without tuning in to a pirace station. With equipment creating as link as 200, they would heak into the cable networks that service as much as 90% of Holland's urbalnageas, Some would transmit envelong they could get their hands on, just for the sport of it—while others eried to do things that were penningly new to TV. Artists and performers were quick to join in, and for a white the country enjoyed a condcap, unpredictable after-hours TV service. There was everything from popvideo lo puringraphy, from foreign TV shows to festure films, even one section that transmitted occasional saturity semions.

Threats of preservation over copyright of some of the housey material find a scop to many of the picties. In addition, the cable owners have now started switting. off their systems unusult regular hours, a ritugely that was deemed likead on a technicality list year. Most of the pirates have mor good back to the radio and the avarchic highlights of ofter-hours Durch cable TV may occur be seen again.

Real Life War Games?

A Stanford University computer operations specialist has filed a lawsoid to islock the U.S. from booking up a computer system that would amount early bunch nuclear missiles in response to an incoming nuclear attack.

Clifford Johnson argumethal it is mean strumenal to give war-reaking power to the so-called intoch con-warning computer system. He recently suffered a legal sectorek when the federal district judge declined to render a decision. The case will may go to the U.S. Court of Appelels in San Fractice.

Although the US, does not officially have the capability to deploy the launchcon-warning system, the lecthrology to do so is deligately being developed by the Pentagon, Johnson claims, And be vays, Secretary of Defense Caspar Weinberger, who is the defendant in the Lawson, has stated that the U S, has not closed the deor

Not only does Johnson fear that the launch-on-seaming computer rould somehow malfunction againstant a nuclear war, but he points rest that the satefales and today that would warn the computer of ail enemy missite brunch possis themselves sound a false afert, one that the cumputer would be unable to distinguish from the real thing.

"To book this system up in pracetime is in givence a nactive war." Johnson says, "because there is a definite risk of it group off accidentally."

Silver Pages

Continued News Strange

Southwesters Bell Media is publishing a new phone bank, printed in a larger Especially for senior citizens. If is expected to genie in New Jersey in August and will be published in FIG cules serious the United States and will feature stones that offer discounts to those age 60 and older. The directory, called the Salver Pages, will also include information on agencies on aging. [Hopefully, these directories

Other News

Completion News Nations of

- A relightione operations' various intentioned to pursue on appearance by form Reversation AFL-CIO needing. The union shinks that the compalion went a bit to a for in bud-mouthing operators in a commercial she did for MCT communications. which doesn't use operators. The 656/000-member Communisations Wankers of America also charges that Rivers removed on her acceptance of a challenge to work a day as an operator.
- The telephone company capacit seem to get the lines unconsist or Fremande International. The company has six telephone lines. For the had several weeks, inconessig castlers have been current unto conversations in progress on other Freesunck lines. And when calls obne it, all lights flash estall the phones, so it is that a guess which is the madning cultand which are cally in progress. Further, an incoming cell might removed to a call-in service one with a sofuctively voiced woman. "We've just been doing major business with the Christian Recoderating Network, "reported Craig MacDonald, the company's marketing director." Dut \ wherein becomes not amusing.
- Bell Canada said a began charging large users of 11.8, directory assistance to elaborate abuse of the service by envanners who the free directory assistance to , compile customer that for sole to U.S. companies. Plane lines will now have free directory desirelance (or the first 250 respicts).
- Pacelic Bell cas bound a way to be a single phone long carry two sinicy and chose company constrations in the same time.
- United Nucles bonks had an estimated \$70 million to \$700 million from coughdent are of sunsurated teller machines in 1983, with customers bedieding millions from his constolence of a the Construction says. Hanks suffered the 80% of

DEAN 2600:

When will it almost be impossible to use long Distance Services? It is so easy to Phreak off these and they never catch the majority of us, but when will it stop?

DNLY WHEN THE MOALD IS A BURNT DUT CINDER WILL IT STOP COMPLETELY. AS TECHNOLOSY CHANGES, SO DO PHÔME PHREACS. BLUE BOYES USED TO SETHE CALL MAY A PAREAK MADE FREE PHONE CALLS, HOM THERE ARE ESTENDERS AND ALTERNATE CARRIERS. WE DON'T THINK EXTENDERS ARE COUNG TO DIE DUT ANYTHE SOON. ALTERNATE CARRIERS IS FRINT, MCS. SIC.) WILL BET HARDER TO ABUSE AS EQUAL ROCESS MOVES IN, BUT THERE WILL ALMAYS BE A MAY. ME LOVE TO USED THE METALERY OF THE MATERIAL ALMAYS BE A MAY. ME LOVE TO USED THE METALERY OF THE METALE. HEAR ABOUT NEW METHODS,

GPEN LETTER:

7 a.m., 02/07/85; Pursuant to a telephone discussion with Reginald Dunh, bead of the criminal division of the Los Angeles' City Attorney's office. I was informed that Los Angeles' City Attorney's office, I was informed that the prosecution believes it has insufficient evidence to continue the prosecution of Tom Trimpidis, SYSOP of MOB-UR. This determination was 400 after I requested a review of the case on 1/11/85 after the departure of City Attorney's affice is before to become 0.A., and while the City Attorney's office is being to become 0.A., and while the City Attorney's office is being to become 0.A., and while the City Attorney's office is being to become 0.A., and while the City Attorney's office is being to be seen a city attorney. Ar. Dunh has given me has word that the people will seek stamissal of the charges apainst Tom under California Seek Stamissal is 'with prejudice' and the people can not refile the case subsequently. To but it succinctly, a dismissal will terminate the prosecution permanently.

subsequently. To but it succinctly, a dismissal will terminate the prosecution permanently.

As Imany of youl know, the City Atterney's office has previously reneged on representations made to me regarding dismissal of the charges. I wish to assure everyone that I have known Mr. Dunn for to years, and I trust his word completely. If he says the case will be dismissed, I am satisfied that such an action will occur.

Me was, Min...win...win...win. My thanks to everyone who contributed to supporting Tom and me in the delense of this matter. I consider this to be a major victory for the rights of free speech over the big brother' machinations of the chane company.

the phone company.

I would be grateful if you would download this message and place at on other systems throughout the country. This is a very big victory, and the BBS and modem communities should know about at.

Agen thanks for the support.

Chuck Lindner, attorney for SYSOP Tom Tojagidis.

Signal, 02/07/85: The case of People vs. Tojagidis.

a.t.a. use a modem, go to juil -- was dismissed in the 'Interests of justice' this morning, 2/7/85. As noted earlier, this dismissed is with projucice, and Tom is now free of the Pageel scourge. Another small step for something seasonabling instruc resembling justice.

THRILLED ME ARE FOR TOM, BUY CHARGES PROPPED MEANS LANS REHALN. IN THIS CASE TOM BOY AMAY MITH WHAS HE DID OR THE LAN JUST REALIZED THAT THERE MAS JUST HOT EMOMEN EVIDENCE TO PROVE ANYTHING. BUY CALSFORMED STILL HAS HORRISLE TOUGH LANS THOT TO MOT PERMIT PRINTING MASAZINES LIKE 2600! YOU CAMMOT EVEN DISCLOSE A PHONE MUMBER OR A PASSMORD FORMAT LET ALONE A WHOLE PASSMORD THERE. HE ARE GLAD HE SOT MIS MICHINE BACK, WHICH IS ALMAYS A PLEASANT SUBFRESS. HE ENCOURAGE CUR READERS TO SAFEAD THIS NEWS WHEREVER THEY GO AS 17 IS A VERY IMPORTANT DEVICE/PMEMT. (FOR THOSE WHO SON'S KIND, TOM TOTHEFICES MAS THE SYSOP OF A COMPUTER BULLETIN SCARD THAT SOMEONE POSTED A CREDIT CARD NUMBER ON. THE PHONE COMPANY DECIDED TO PRESS CHARGES AGAINST MIM EVEN THOUGH HE CLAIMS NEVER TO HAVE SEEN THE MUMBER IN QUESTION. THEY TOOK HIS COMPUTER AND BOTHIM A LOT OF HATIONAL ATREATIONS.)

Have you been reading about those new high tech secure telephones? I've been thinking about what must be inside them. The closest thing I've heard to that kind of technology would be DVP - Bigital Woode Processing. It's like digital Audio processing, but after the voice is turned into bits, disfdsfkskfgs]kdggrengfds

they scramble them up and then send them off. The other side then decrypts the bits and transforms the decrypted signal back into voice. The stuff I'we read (in Popular Communications Magazine, around a year ago) said that a lot of law enforcement agencies but it to scramble their radio transmissions II believe the ones mentioned were the SEA and the Tradeory police, maybe the secret service, but not, interestingly enough, the FEE?. The only problem is that it interestingly enough, the FEE?. The only problem is that it didn't work too well - many people reported hearing the agents switching the DVP off and transmitting a normal, unscrambled signal because they couldn't get it working right. However, over a land line it would probably work a lot better. And the nice thing about DVP is that it really is secure, as long as no one known your termbling algorithm - however, I imagine the Russians already have the plans for one of those phones, given that very few military secrets ever remain secrets for the Mutsians already have the plans for one of those phones, given that very few willtary secrets ever remain secrets for long. Besides, if the government offers several thousand of them, it stands to remain that at least one would end up in the Mrong hands. Anyway, I'm not ture that knowing the inhards of those phones would help you unscramble the traditic, since that might only out down the number of possibilities to a few billion instead of a few quadrillion. The whole point of encoding something is so that your enemy foes not usercamble, it while the information is still useful to either of you.

of you.

I've often thought about how to do something like that with our little accros. Two people talking on the phone via a screenied added link have a remarkably secure consection, the problem for maximum up the screenied modes link have a remarkably secure consection, provided they are using the right software for mixing up the cits. I seem to remember that ESS's these days are configured to automatically detect any kind of screening going on, and alert security folks whomever a scrambled conversation a conversation has something to hide, and the big government boys are interested to people who have things to hide. However, the aforementioned pair on the phone would not be noticed by an ESS, since all they would be doing is setting a normal modes conversation, and if they didn't mind slow communication they could be even more secure with an encryption scheme that sent two or throp lines of "noise" for every character of genuine information being transferred. The noise could look very innocuous, say the transactions on a "legal" bulletin board, and thus not even appear to be hiding anything.

anything.

By the way, these are the best possible secret codes, the bind that do not appear to be anything out of the crotnary and thus are not even thought to be codes at all! Another possibility is to send information in the form of the time delays between each character transmitted. That means that someone "listening in" on a sigital conversation by having the data printed but would also but on the entire message, since his printer would only record the characters sent, which in this instance are utterly unimportant. By the may, monitoring of a computer conversation may not be considered wiretapping since the statutes iconcerned can be narrowly interpreted to cover only audio taping of a conversation, not digital eavesdropping. havesdropping."

Informed as Hell

MANY ASSESS OF "PUZZLE PALACE" BY JAMES BANFORD SO INTO DETAIS ABOUT THE FORMS OF EXPYTOGRAPHY USED TODAY BY THE NATIONAL SECURITY ASSENCY, WHICH INCIDENTALLY HAS EXPRESSED A SERONS ONTEREST IN SUBSCRIBING TO US. HE HOPE THEY WILL CONTRIBUTE MANY FINE ARTICLES.

SEAF 2800:

TOGAL 2400 bass work on standard Bell Judes?
TES, 2400 SAUD 35 ACTUALLY 4 BITS AT A TIME AT 600 SAUD.
AND SELL LINES CAN HANDLE THAT.

DEAR 2000:

If I want to go trashing, am I lorded to just attack my Central Diffice?

THERE ARE LOTS OF GOOD PLACES TO TRASH BESIDES PHONE COMPANIES, LOCK IN THE PHONE BOOK UNDER SOFTWARE COMPANIES, PHONE EQUIPMENT, COMPUTER EQUIPMENT, ELECTRONIC EQUIPMENT, OR LOOK AT RADIO SMACKS, OR SEE, MCJ, OR YOUR LOCAL CARLE COMPANY, YOU WILL FIND LOADS OF THIMES, LIKE FREE TELEPHONES, LIPPIES, ETC.

all kinds of letters

The 2600 Information Bureau

		A Company of the Comp	PANDE-MIL-TAG	1.0.0.0.7	The Band Gorserstein
ADDTO 01	LOGATION :	27-8ea-85	000A-A18 000A-064	10.3.0.1	University of California University of California
HORT MANE HE	OT ADDRESS.	SETE ASSESSES	UCLA-LOCUS UCLA-TEST	10.2.0.1	University of California University of California
ANNUM-HIL-TAD	: 26.2.0.113	Heads - Assistan	USC-ECL	10.0.0.1	trac .
ANNON-MOLETAG BUNTER-TAG	24,1,0,13	Air Force Data Overses Air Force Data Bystess	080-6016	00.0.0.23 10.1.0.121	USC :
m3-COn-TAC	24.2.0.41 .	Arey Missile Command Arey Missile Command	- UNC-181 - UNC-1818 A A A	26, 3, 0, 105 10, 3, 0, 52	LORD 1 040
APRIL .			VHC-1011: VHC-1010	10.0,0,0	Dec .
РПАНКРИЯТ-МСЦ-ТАС АВЗЗОНА		Defense Enseunications Agendy	UDC=101C	26.1.0.103	056
YUHA-TAC.	24.2.9.75	Army Yune Proving Ground	UBC-181F	10.2.0.82	USC.
CALLEGARIA: Marthara Antherman	30.7.0.51	nn) lokefusklonsk	COLORADO UDBOZ-HULTICO	26.0.0.40	U.B. Dealugical Dorvey U.B. Dealugical Durvey
ALUM-DWIN AMELIA-EC	26.4.0.16	Advanced Information	QUANTE THE CONNECTION	28-1-0.69	U.S. Sectodical Survey
在巴爾第一股外第一章第	26.4.0.16	HADA .	нимс	24.3.0.92	Havel Underwater Dystees
AMED-TAD AMED-WILL	26.1.0.16	HANA HANA	YALE YALE-BE	10.2.0.9 10.2.0.4	Wate University . Yale University
FADG-BEDURE	10.5.0.52	Navy Plant Mannerschi Kamiral Englitute	DELAMARE UDEL-EE	10.3.5.96	dosversity of Delevers
LBL LBL-CBAN	24,0,0,34	University of Cabidornia :: University of Cabidornia ::	ODEC-09	10.0.0.96	University of Delegary . University of Delegary .
	10.0,9.46	Later 4000年 - 新聞の報告を申り 1	CHOLAND Dide (-LOW-EM)		CINCUGNAVIOUS
LLL-CAB LLL-HFE	26.3.0.21 . 36.1.0.21	university of California	HINET-LON-TAG	24.0.0.7 24.1.0.7	CINCORMANDOS
LLL-TIB LLL-IDIVIDION	24.0.0.21	University of California	FLORIDA. PERCHAR	28.0.0.53	Air Force Organist Stateson
HPB	24.0.0.33	Nevel Postgraduate Adhest Mayet Postgraduate School	AFAC-AB-TAC EQUID-MAR	24.3.6.53	Air Force Areament Division Eglin Air Force Bere
HPM-TAG OFFICE-L	26.0.0.43	Zymakara, 166,	DAX L-MIL-TAC	24.4.0.550	Havy Regional Data
OFF ICE-10	34.1.0.92 34.1.0.43	Typestaria, Inc. Typestaria, Inc. Typestaria, Inc.	HARTEM HARTEM-D	24.3.0.03 24.1.0.44	Harito Bartatta Corporation Harito Heriatta Corporation
0FFCCE-2 0FFCCE-3	76.7.0.93 26.2.0.43	Tymeharm, Inc.	AG単行 UCDNOTA	84.4.0.00	Hayal Countal Bystems Cubler
CPF CCB-/	Sec. 3. O. 43	Tymebers, Inc. 6	COMPAN-FORMOUR	24.4.0.64	Forder Commend
OFFICE-8	74,0,0,72 10,0,0,232	Xerok Corporation.	COMERS-FIGURE .	26.0.0.64	Harows-Robens Audymnübbn
PARC-VAIC Aleck-by	26.6.0.16		POSITING - UNITE GERMANS	26.3.0.64	Marner 1500 the ALG/65000H
DIACS-ICARUS	76, h, 0. 16	Research Institute for	GCA-EUN HEMET-BRM-TAC	74.7.0.2 24.1.0.5	OGA Surope Hiber Installation
1	26-1-0-75	University of Catteores university of Catteorete	PERSON 1 - MOL - TOD :	79,1,0,0	OCA Farings
63 - 6 - 64 21 - 6	26.2.0.70 26.3.0.95	University of California University of California	MEMET-OBL-EH MUMET-OBL-TAC	24.0.0.3 94.1.0.1	0.6. Ares Geno King : W.m. Wrey Casp King
BRI = HI	10.4.0.2	TITL COLORNAL LONG & C.	性を特定する場合性一下直に 対し時にデータの用ったり	24.1.0.3	0.5. Air Force SCe Europe
DR1-CRL	10,2,0,2	HAC International	中国時代エーンサリー工作に	24.1.0.2	SCA Curnes
NATION OF THE STREET	26.4.0.73 10.5.9.51	SPE Enternational SPE Enternational	PATCH SECREMHETH-ENH	24.6.0.2 26.4.0.116	Meseggarters, U.S.E.Cor dray Material Development
BRI-IU	10.8.0.2	GRI International	GIMBPAG-TAG	20,2,0,36	Openeder in Chief Peoific
ΠΠΙ-ΚΙ, BAL=HIL=TAG	26, 3, 0, 73	SRI International	HAMAII-CHU	26.1.0.34	DCS Yachnicel Control
BHI-HIG BHI-HIG	10,4,0,50	this incornational	AFGC-1 AFGC-2	36.4.0.19	Atr Force Communications
881-P8-841 981-P0-842	10.1.0.51	001 International 001 International	AFGG-3	26.5.0.114	Air Force Communications /- Air Force Communications /- Air Force Communications
991-99-953	10.0.0.107	- BB1 International	4F00-4 OHU-HGO	28.7.0.110 28.1.0.35	Air Force Communications Argonne Mallonel Laberatory
●表 E = 単門表別 第17 E − 下京C	10.0.0.2		COMPION-VMS HCDTY-TAC	24.2.0.55 24.1.0.57	Dould Boftware Division
●表1 - UNI # ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	30,2,0,01	HRI IOSACORLLAGIAL	BEDTTZ:HEL:TAC	26.0.0.110	Air Force Communications
STAMEDED-BATEWAY	26,1,0,73	Onl International Associate University Otenford University	PURBUE-CO-OF	10.2.0.37	Purdue Owiversity
Su-All nu-spage	10,0,0,11		PORQUE - 435	10,0,0,78	t to the second second
GU-TAG BURES-NIR	10.2.0.11	Stanfore University Henical	HINET-GFG-146	24.0.0.0 24.1.0.0	. HTCC Heval Tela, testuona
UGD-ARPA	10,0,9,797	University of Cabifornia University of California	MINE I-SIG-TAC KOREG	14.1.0.0	HATG MARKS FAMED
008-964 08883-745	10.2.0.78 74.1.0.70	u. u. deciogate) Survey U. G. Seciogate) Survey	KOREA-EAN	24.0.0.117	AUTODIN Designing Conter
26607	26.0.0.70	U.O. Geological Gurvey	KOREA-TAC NORL-MIL-TAC	24, 2, 9, 117	NOTESTA Butteling Contact News Rendonal Data
CALLFORNIA: Southern	98.6.0.45	Advanced Cosputer	LOUISIANA	24.3.0.107	
PARTATAC A TOTAL	26.2.0.35	- Mental Admin blassman resures	MARYLAND MARYLAND	24,2,5,77	Two t and Evelystian Command .
ADA-VAC AEROMET-OW	26.2.0.103 26.8.0.68	* The Ascompage Corporation	APOX2	24.4.0.27	Aberdeen Proving Ground . Aberdeen Proving Ground .
APRICACE .	26.2.0.45	The Asrospece Corporation Air Force Systems Community	APH-3	26.0.0.29	Aray Arasast Bassarch
AFEC-SE-TAC	26.1.0.45	Air Force Systems Command	MRL-BATCHAY	26.3.0.29 26.0.0.29	Aray Aressent, Munities. Aray Aressent Sessarch
CIT-CA-GW	10.1.0.04	Air Force Systems Command CALTECH CALTECH CALTECH CALTECH CALTECH Edwards Air Force Sass USC USC USC USC USC USC	BAL-TAC	26.2.0.99	Army Arnament America
CET-VAR CEWARDS-2000	26,1,0,34	Edwards Air Ferts Bass	DAVID-TAC	26.2.0.07	Matsonel Becarity Agency Davis Taylor Havel Salp Revid Taylor Havel Salp
BOWARDS-VAR	10.0.0.39	Edwards Air Force Base	DING AND	26,8,0,81	Revid Taylor Havel Bits David Taylor Havel Bhip
161-1408-08-14	10.1.0.52		MAHYLAHU	94,9,0,57	University of Maryland
COCHMET-DA	10,1,0.33	의 나라 승규가 있다고 있는 것이 없다. 이 사람	HULLCON TAX	20.2.W.3/	University of marking
CRIT-PRESS CRIT-PRESS	10,1,0.27	S Dec 1986 Charles and the last of the las	H00-446F	26.6.0.17	Hettoral Durmeu of Standards
INI-MALECHII	10.0.0.23		HRG-681	24.7.0.17	Hetlorel Durmey of Standards
JPL-YEST	10.3.0.54	Jet Propulsion Laboratory	HLR-OW	24.0.0.81	· David faybor wave. Mesp · Metlews) [metltwise of Meelth.
LOGICON PARTON-ED	24, 3, 0, 45	Hartin Hariatta Coronnalian	HEH-MCG	26.0.0.00 26.3.0.81	Sevid Tevior Meval Ship
HOSC W	24.0.0.2	Marel Ocean Systems Center	HOHC-WG	26.0.0.102	Wavel Durince Wespone Canter, Wavel Electromics Systems
HORO-MA	34,0,0,5	Edgards Air Force Bass Edgards Air Force Bass USC	PARRY-NEE	20.2.0.77	waves Cincingston Dystone
MORC-REGURES HOME-REGURES	26.0.0.35	Mayel Ocean Byetses Conter Mayel Ocean Dyetses Conter	HVGGVCHPGG118	VE. 0. 0, 87	Mattanal Hadertly Agency
MODE-TEER	26.2.0.38	Hayal Odman Hywtons Chater Hayal Paragagai Managara	A-CHI-DDH-01	28.1.5.64	Ale Force Geoghysics
MPROG-OM	26.3.0.3	Mayal Permonnel Permerch Mayal Permonnel Permerch Boerry Technicel Harwhise Mayal Heapone Center Hayal Heapone Center Hayal Heapone Center Hayal Heapone Center The Hand Corporation The Hand Corporation	AFOL-TAG	26.2.0.44	Air Force Geographice
MMG-3603	24.1.0.45	navel-Mespage Center	PRHIARRATTAC	10.1.0.43	Dolt Berenet and Resear Jec.
対対な主義を予告 発展に一次をでき	26.0.0.0.05 26.0.0.05	Havel Mespone Center Havel Messons Center	DON-CRONUS - ON	10,0,0,0	Both Bersonk and Hemman Ing Dolt Bersonk and Makeso Inc
HHE-THE	26.2.0.00	Neval Mespons Conter	DOMEST AND THE	18,2,8,3	Boll Beranek and Heepen Inc. Doll Beranek and Mewash Inc.
RAND-UNIX	10.3.0.7	The Hand Compared to	PRA MIE INC	201010140	CALL DES PARTS OF THE PARTS OF

				 A. Y. A. B. B. W. M. M. B. B.		and the state of t
	DON-MILNET-DA	10.8,0,8	AND COMMUNICATIONS	MEAPH-SALCE	26.4.0.47	wright-Passarage Air Force
	BBH-MIMET-K-HH BBH-MIMET-K-HH	24.1.0.40	PP4 Comedia catalana	MPAFE-TAC OKLAHOMA	24.2.0,87	Association Systems
	新教育 - 西代 - 中央	10.4.0.2	Sett Bereick and Hawsen Inc.	[88] [88-8] [LL-20	26.1.0.71	Messaguerters, Desartment of
	NON-PR-MINTION-1	10.7.0.6		TIMKER-HIL-TAC PENNEYLVANIA	28.2.0.7L	Tinker Air Force hase
	Sire-fable-ma	26, 3, 8, 72	Belt Bernest and Manman Inc.	GDA-FDFOL	24.1.0, 114	Heterial Development
	御御長一時代です	10.0.0.43	Bolt Berases and Heepen Inc. Bolt Beranes and Mannen Inc.	CHU-CG-6	26.7.0.14	CAPAGE BANKETER MAKEDEFEELD
	THE PANEL OF	10.0.0.63	用格人名 影響的是有學者 金色田 经金属的企业 1999。 .	GHU-CH-C	BO. 7. 0. 18	Caregor-Hellon University Caregor-Hellon Delversity
	336-441 336-133-04	10.1.0.02	Balt Berengt and Manuan Inc.	CHU-ENTEMAY LEBA-DB1	30.2.0.14 34.2.0.00	Carana a Ballina Hat consider
	10日本- 10日 - 1日本 1 ス 東京の- 12日 - 18日 1 日	10.3.0.99	BBN Commontant Leading	MADE	74.0.0.24	Letterkenny Aray Dapot Mayal Air Davelageons Conter
	B DRAM	10.4.0.99	Balt Berangt and Manage Inc.	MGAD-HIL-TAG MGAD2-HIL-TAG	34.3.0.114	New Comberland Army Depok New Comberland Army Depok
	BESCCP BUNG	10.3,0,49 10.1.0.5	Bolt Buranel see Hamman too.	W46K10H-10	10.1.0.74	University of Panceylvania
	CCA+GAC	30.3.0.31	Bolt Baranca and Memman Inc. Scenuter Corporation of Amer.	MANDAF-HEMPORY	34.4.0.72	Howat Date Waterstipe
	CCA-UNCS CCA-VHG	10.0.0.31	Computer Corporation of Appr.	MUMC-ADA MUMC-MPT	○ 日本、1.16、年度 (*)	Heyel Octornator Systems Navel Octornator Systems
	CLUL-BVC-MOUT	10.3.0.31	Computer Corporation of News. HoneyHell Intermetton Dystess .	GCOFLAND	24.7.9.72	Mayer Ownerhance Systems
	CONST-PSM-ON CONST-RELAY	10.4.0.5	Bolt Berenst and Massan inc. Bolt Berenst and Marsan inc.	MEMET-MEN-TAC TENNESSES	24.1.0.13	HAVACTS
3	COMET-OH	#0.7.0.M2	· Mell Berensh and Massas Jac.	O供外表。> 何 保政	26.3/9.45	Dak Blage Mational Laboratory
	DDM2	10.2.0.72	Dott Buranes and Magnes lac. Shorter Equipment Corporation	TERAR A-LMI-COL-02		
	DEG=HARLBORO	10.1.9.75	Dipitel Equipment Corporation	APREC-L	26.0.0.162	Rockeelt Sabareas (saa)
	MARYARD	10.0.0.79	Digital Equipment Corporation	声門神門の一分	26.1.0.39	Hendquerters, Air Force Hendquerters, Air Perse
	HARVARD-BH	10.0.0.9	Merverd University Herverd University	erdoka-apg-tag CGLL ENG-GW	10,1,0,46	Ald Breeze Breekens Present
	LL-EH	10.0.0,10	明1 T - 例3 T	COLLINS-PR 1	30.0.0.44	Rockwall International Recewall International
	化七二极色	10.5.0,10		GOLLENS-TAC	20.9.0.44	Rockes11 International U.S. erey
	LL-PORT-30 X	10.3.0.10	MIT .	UT-HOP (15 10)	10.0.0,43	Welversity of Terms :
	LL-VLD1	10.1.0.10	HIT TO THE RESERVE OF	UT-BALLY UTESAB-20	10.2.0.42	
	HINET-TOR-EN	10.2.0.10	mg r	THE METHERLANDS	4 4	A Company of the Comp
	用35一条3	20.0.0.11 10.2.0.4	Movementa information Matagora :	HINKT-ROH-TAC	24-1-0-6	MING TIGE
	#3.5-69 #3.5-80	10,0,0,72	FIZE .	DP0-1 - 2730273036	26.1.0.130	Begang Proving Ground Bugway Proving Browns
	MIT FIRE	10.3.0.44	RLT RLT	DUBMAY-HIL-TAC UTAH-20	26.0.0.120	Dugway Fraving Browns University of Obsa
	MET-MULTICA MET-7AC	10.0.0.4	MIT	O LARGE CO. TO SEE SEE	10.0.0.4	University of Otto
	HLT-TOTOW	10.2.0.77	HCT HLT	UTAH-HOTEMAY UTAH-HAC	10.0.0.4	Undwarmitty of Utah
	HET-ER HETRE-SESFORS	10.010.44	# ET 2 (2) (2) (2)	Y381838 1 . (2.36) (2.27)	A Total Not in pro-	University of Utan
	FEET SECRET	76, 3, 0, 66 26, 9, 0, 82	HITTE Composition Bull Before and Messen Inc.	A67A-M31-467-84	10.2.0.20	Army Persearch Englished
	TEGT-HOOTS-125	20,0,0,77	BBM Communications	AREA-EMBILL	24.3,0,304	Defense Advanced Research
à Le	HEROTA	10-2-0-99	AAR Communications	AMPAI-MIL-TAD	24.2.0.104	Defende Advanced Herperch
		10.1.0.74	Honeyealt, toc.	(2) 資産管告3×3等で、、、、・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	10,0,0,26	Detends Advenced Research
W118	ALHOA-I	78. 3. 0. 61	Autometed Lagistice	ASPER-CEC CEC-CA	24.2.0.0	Computer Schences Corporation Computer Systems Commence
	HIL-HURTI	26.0.0.43	Army Dyletion Systems Command	自衛者一般共工を開める。	10.2.0.25	Teledyne Rystees Commens
	OTL-HOBTZ BYLA-TAC	26.0.0.212	Army Aviation Systems Command Army Interestion Systems	CRR-RENG-GW SARCON-HD	10.0.0,0	Teledyna Geotech
	renge (n			DARCHE- FAC	24.2.0.56	Army Hateries Development Army Heteriel Development
	BAC-ARPA-TAC ENG-MATERAY	10.1.0.00	Direcegic air Commens/ADXCC Strategic Air Commens (886)	DARFA-GW DCGC-ARFA-TAC	10,0,0,28	Genter for wetterly which se
	BAC-BH-S	10.5.0.00	MEADQUARTSAYS, ESC	BCEC+GATEWAY	10,2,0,20	Definite Communications.
3.	MACHMILARY-BA BACHBIRTIDH	10.9.0.00	ENC Greened (DAC)	DCEC-LHUM	26.4.0.LQ4	Detable Communications .
	WHEN-MILE-185	26.1.0.165	EAC Command (DAC) Headquartare, Mac EAC Command/ADXCC Headquartare, DAC	DCEC-ELL-TAG	26.210.104	Defense Communications
沙田名	SACR-MIL TAE	3A.7,9,195	Headquartura, GAC	DEEC-PRAT	10.7.0,20	Defende Passanications
	MARCHARGODE-HITZ	24.0.0,92	Frey Pederal Dysteas	OGEC-PRAT- CO	10.5.0.20	Definat Communications Definat Communications
Page 19	AMPG	24.1.0.43	Afey Donesent Desearch	DEEC-TAC DCH-SATEMAY	26.2.0.20	Defense Commontentions
	ARGC - TAC	26.0.0.45	Brad Argunder Angeleria	DDM-PHO-HIL-TAC	20. U. H. [1]	Linksbit Corporation Defense Cossumitations Assets
	CECOM-S CECOM-Z	26.3.0.40	Army Communications	COM-UNIX 6	10-1-0-35	Work Herepak and Hasage Inc.
	の資金の資金の何一十条に	24.1.0.40	Army Communications Army Communications	PART OF THE PART O	26.7.0.20	Defense Communications
	COMARCOMS - TAC MONNOUTH - 2.3 (M)	26.9.0.40	dray Communications U.S. Army Communications	HUCY-ON LWM/HH-CIDG	Th. 1. 0. 17 1.	U.S. Prey Englower H114E Corporation
	BUTGERS	10-1-0.89	Autors University Autors desvaracy	18H18D-DADCOH	26. 2. 0. 47	Criminal Investigation
	AU16GAS-69 Tec res r-gal	26.5.0.40	Authors descriptions	TOHINO-TRADOC TPTU-HH		Traching and Doctrine Germand
	ME AECO			LOUIE-ON.	10.1.0.28 20.2.0.111	Datese Advenced Research MSTAC Corporation
	APML TAC	26.1.0.48	Air Force Heapons Laboratory Air Force Heapons Laboratory	MITAE DATEMAY	26.0.0.17	MATRIE Englandito
	HANL MANDEA	26.0.0.90	LOS ALSEGO Mattendatos Association	HITRE-LAN - Technology	10.2.0.111	HITEE Corporation
	STATELES	26.0.0.07 26.0.0.74	Mendie Methonel Laboratories White Sanda Missile Mange	HITHE-TOD MORFOLK-MILTAG	24, 2, 0, 19	MAPRE Corporation NAS Morioik
	HERH-HET-DM	2= 2 0 24	Ministry Manager Mynager Branch 1 Aug	The second secon		
	HHMHÖ!	26.1.0.74	Hitte Dands Hambile Hange Holte Bands History	MONC-ONS	34, 3, 0, 84 12 34, 7, 0, 44	Nevel Durtace Meaning Cantar
NEW	YORK AND	74 1 1 7		MEME-THE	「現在、アーロ、日本 1	Market Burlace Mespone Center Nevel Burlace Mespone Center
	COLUMBIA	26.1.0.58 10.3.0,89	White Sands Ressile Hange Milts Sands Ressile Range Milts Sands Ressile Range Endabnisse Metional Columbia University Columbia University Cornell University Econell University EC Corporate Resserch Med York University Ross All Debelophent Center Moss York University Ross All Debelophent Center Moss Of Development Center University of Mochester University of Mochester University Of Mochester University Of Mochester	2000018-000	10-0-0-25	Pelekyne Hentsch
	COLUMBIA-SO COLUMBIA-ON	10.0.0.09	Columbia Delversity	UDADHOS	26.4.0.30	Computer Ociances Corporation Mesoquerters IARCOH
	COUNCIT - OM	19.3.0.HV	Cornell telegraphy	BATHOMITON CONTRACTOR	10 T 5 B	University of Washington
	CORHECT-SM CC-CUD	10.310.98	Cornell University	NM-ACKS-BR	10.3.0.91	University of Machington
	HYU	74.0.0.50	Hed York University	WASHINGTON	10.0.0.71	University of Maskington University of Maskington
	HYU HYU-BH RADE-ARPA-TAE	36.0.0.SH	Hem York University	WASH148104, D. E.	101210144	Bullant state of Meaut-Scott
	MADE-HEMEX MADE-HULTIES	24.5.0.19	Huma (ir Dayelosaant Center	AFRC-HB	26.0.0.67	Ale Save Systems
	MADG-HULTICE BAUC-TAC	26.0.0.18	Ross Air Davelopment Conter	SCA-EMB.	26.5.0.104	Pir Force Dystage . Defense Compunitations Agency
	MADE=TOPB20 Poretures	10,7,0,114	Rose Oir Development Contar	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	24.1.0.26	Headquerters, Department of
	ROCHERTER	10.0.0.55	Webversity of Rochester	HEE-PL	26.3.0.49	Helionel Derest of Standards
HDB	U₹-СВ∙ВИ :ГН СВ\$ПЦ1М4	10.0.0.18	Contractly of Rockships	MAG-UMC 4	24,7,9,17	Helional Deresu of Standards . Mational Bureau of Standards . Helional Suresu of Standards
		10, 2, 0, 38	Chief, ADDE Supertamental	CALL SALES SALES	2A.D.O.B	Maral Research Laboratory (
		10.0.0.39	U.S. Army Alphanne Poers	HRL-AIC	26.1.0.0	Haval Hammerch Laboratory
TH:	现代共享的一个《Andrews	10.1.0.30	Coles, Augu Kaparleantal	HIL-COS .	26.7.0.0 4	Marai Research Laboratory
	A PART OF THE PART	24.0.0.42	Chief, ADDE Separtmenter Chief, ADDE Separtmenter Chief, NODE Expertmentel U.S. Gray Airborne Roses Chief, ADDE Manarimentel Headquartmen, Air Force Mright-Petterson Air Force Air Force Hright Height-Patterson Air Force	MULTURNIO	24.7.6.6	Havel Passerch Laboratory
		24.5.0.49	Wright-Patterson Air Force	PERTANDE-TAG	28.0.0.00	THE POPCE Date Dervices
	HENEN-THEO!	26.1.0.47	HELENt-Esterann die Force	HISCORPIN HISCORPINATIONS	10.0.0.0.04	
				POLICE CONTRACT	2	MUNICIPAL OF MUNICIPALITY

